Application Serial No.: 09/676,998 Attorney Docket No.: 0190230

List of Claims:

Claim 1 (Previously Presented): A digital camera comprising:

a processor having a memory;

a substrate having at least one pixel disposed thereon for absorbing light from an

object, the at least one pixel being electrically coupled to the processor for storing a

digital image of the object in the memory of the processor; and

an electromechanical shutter mechanism comprising at least one individual

shutter hingedly attached with respect to said substrate and moveably associated with the

at least one pixel and having a first position and a second position that are selected

according to commands from the processor of the digital camera, the first position

exposing the at least one pixel to the light from the object and the second position

preventing the exposure of the at least one pixel to the light.

Claim 2 (Previously Presented): The digital camera of claim 1 wherein the

substrate has a plurality of pixels disposed thereon and the electromechanical shutter

mechanism includes a plurality of individual shutters that are each associated with a

corresponding subset of the plurality of pixels.

Claims 3-4 (Cancelled)

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Claim 5 (Original): The digital camera of claim 2 wherein the corresponding subset of the plurality of pixels comprises a row of pixels.

Claim 6 (Original): The digital camera of claim 5 wherein the individual shutters of the electromechanical shutter mechanism each comprise an elongate shutter that extends along the row of pixels, the elongate shutter having hinges coupled at least at each end such that the elongate shutter moves between the first position and the second position with respect to the row of pixels, the first position being perpendicular to the substrate and the second position being slightly off perpendicular so that that the individual shutter creates a shadow on the row of pixels.

Claim 7 (Currently Amended): An image capturing device comprising:

an adjustable aperture that allows light to pass through when opened and that prevents light from passing through when closed;

a substrate having a plurality of pixels disposed thereon for capturing the light that passes through the adjustable aperture;

a shutter mechanism that is used to control the amount of the light that the plurality of pixels receive when the adjustable aperture is opened, the shutter mechanism hingedly attached with respect to said substrate to adjust comprising a planar surface having a plurality of openings therein and movable from a first position to a second position in a plane parallel to the substrate to simultaneously adjust the amount of light

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that each of the plurality of pixels receives; and

a processing device for storing the data that is captured in each of the plurality of pixels such that the image capturing device is able to generate an image that is created by the light that passes through the adjustable aperture.

Claim 8 (Previously Presented): The image capturing device of claim 7 wherein the first position is an open position that exposes the plurality of pixels to the light that passes through the adjustable aperture and the second position is a closed position that prevents exposure of the plurality of pixels to the light that passes through the adjustable aperture.

Claims 9-10 (Cancelled)

Claim 11(Previously Presented): A method for an image capturing device to control pixel exposure of a plurality of pixels on a substrate, the image capturing device including a shutter mechanism that provides a first shutter setting and a second shutter setting, the method comprising:

arranging the plurality of pixels to operate with the shutter mechanism such that the first shutter setting provides the plurality of pixels with exposure to a light source and the second shutter setting prevents the exposure of the plurality of pixels to the light source;

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constructing the shutter mechanism to be hingedly attached with respect to the substrate;

exposing the plurality of pixels to the light source for a predetermined period of time;

measuring a saturation point for each of the plurality of pixels;

capturing, with each of the plurality of pixels, a data representation of a portion of the light source;

recognizing that the saturation point for at least one of the plurality of pixels has been reached; and

positioning the shutter mechanism in the second shutter setting, thereby discontinuing the exposure of the plurality of pixels of the light source.

Claim 12 (Cancelled)

Claim 13 (Original): The method of claim 11 wherein said positioning the shutter mechanism in the second shutter setting comprises angling at least one elongate shutter from a first position that is perpendicular to the substrate to a second position that shadows the plurality of pixels from the light source.

Claim 14 (Original): The method of claim 13 wherein the at least one elongate shutter comprises a plurality of elongate shutters that each correspond to a row of pixels

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from the plurality of pixels, the plurality of elongate shutters shadowing the respective

corresponding row of pixels when the shutter mechanism is in the second shutter setting

such that the plurality of pixels is shadowed.

Claim 15 (Original): The method of claim 13 wherein each of the at least one

elongate shutter is coupled to the substrate by at least two hinges, respectively, the at least

two hinges of the at least one elongate shutter being moved at an angle such that the at

least one elongate shutter simultaneously shadows the plurality of pixels when the at least

one elongate shutter is moved from the first position to the second position.

Claim 16 (Original): The method of claim 15 wherein the at least one elongate

shutter comprises a plurality of elongate shutters, each of the plurality of elongate shutters

corresponding to a row of pixels from among the plurality of pixels, the plurality of

elongate shutters each having at least two hinges coupled between a bottom edge of the

elongate shutter and the substrate.

Claims 17-18 (Cancelled)

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